Introduction to Equipment

There are two parts to this system a rover that is used during surgical procedures to collect liquid waste and a docking station that is used to dispose of the waste and clean the rover.

The Neptune Rover is available in three different models Gold (0700-001-000), Silver (0700-003-000) and Bronze (0700-007-000). The Rover Gold is a self contained(does not require house vacuum) with a powered IV pole. The Rover Silver is a self contained (does not require house vacuum) without powered IV pole. The Rover Bronze (0700-007-000) is a house vacuum operated device. Each of the Rover units consists of a Canister for collecting the waste and a docking assembly. Some of the units contain an impeller for breaking down coagulated blood. The Gold and Silver units contain eather a level or pressure sensor for monitoring the fluid level removed during use.

The Neptune Docking Station is connected to house water supply and drain and pumps liquids from the Neptune Rovers. The Docking Stations may be equipped with a canister rinse option.

Manufacturer
MODEL NUMBER
Description

Parts and Supplies Needed

QA= *items needed for Performance Verification/Quality Assurance.* **PM**=*Items needed for Preventative Maintenance - not* QA. *All items marked* **QA** *will also be needed for Preventative Maintenance*

	SUPPLIES		PARTS
	Paper Towel		ROVERS (Gold and Silver)
	General purpose cleaner		Carbon Hose (0700-035-000)
			Vacuum Hose (interior) (0700-001-116)
			Fluid Suction HEPA Filter (0700-034-000)
			Vacuum Pump Filter (0700-001-315Q)
			Elbow (0048-212-000)
			Compressor Vibration Mounts (0052-903-000)
			DOCKERS
			Impeller (0700-001-315)
			Filter Washer (0011-546-000)
			Compressor Vibration Mounts (0052-903-000)
			ROVER (Bronze)
			AA Batteries (0207-050-041)

Manufacturer
MODEL NUMBER
Description

PMQA Procedures

The following includes all levels of testing. The steps applicable to each level is as follows:

A (abbreviated): Step 1

QA (quality assurance - operational verification): Steps 1, . . .

PM (preventative maintenance): All steps

1. Historical: *optional but beneficial in some cases*

1.1. CHECK THE CURRENT EQUIPMENT LOG SHEET FOR:
- 1.1.1. General trends
- 1.1.2. Previous Problems and work performed on previous pms.

1.2. RUN AN EQUIPMENT HISTORY FOR THIS SPECIFIC PIECE OF EQUIPMENT
- 1.2.1. Check for reoccurring problems.
- 1.2.2. Check for excessive repairs
- 1.2.3. Check for unresolved or intermittent problems.

1.3. RUN EQUIPMENT ERROR RECORDS (IF APPLICABLE).

1.4. CHECK ANY SERVICE REPORTS THAT THE CUSTOMER MIGHT HAVE FROM THE MANUFACTURER OR OTHER SERVICE VENDORS.

2. PRELIMINARY: This does not apply to two-wire and double-insulated equipment.

2.1. LEAKAGE CURRENT:
- 2.1.1. Chassis to Earth Ground (power-cord ground wire intact).
- 2.1.2. Chassis to Earth Ground (Open ground wire):
- 2.1.3. Ground Wire Resistance:

2.2. CLEAN EXTERIOR AND INTERIOR ACCESSORIES

2.3. VISUALLY INSPECT THE UNIT
- 2.3.1. All cords and cables for cracks or breaking. Replace if necessary
- 2.3.2. Verify the viability of the strain relief,
- 2.3.3. Knobs and buttons condition.

Gold Rover (Pressure Transducer) (Model 700-1)

a. Using a soft bristled pipe cleaner, thoroughly clean the waste ports exiting the bottom of the canister.

Preventative Maintenance

(Continued)

Utilize Neptune PM Form *(p/n* 0700-001-742)
to record Preventative Maintenance checks outlined in this Service Bulletin.

1. Enter Diagnostic Mode by holding "Smoke Mode" & "Up" keys (POLE DOWN) simultaneously while turning on battery. View the errors and note any unusual or concerning errors. Clear errors after reviewing. (LOCATED INSIDE UPPER LEFT PANEL ABOVE SMOKE FILTER

A. **Gold and Silver Rovers (Models 700-1 and 700-3)**

2. Inspect Canister for any cracks or leaks that will indicate that the canister should be replaced.

3. Visually inspect Couplers to ensure they are sealing properly and there are no indications of leaks.

(4 SIDE) (4 LOWER) BOTTOM PANELS 5/32 HEX RIGHT PANEL 1/8" HEX (4EA)

4. Clean Rover, replace Hoses and Filters per Service Bulletin SB-0218. Complete PM steps 5-8 during the cleaning sequence as appropriate access is available.

5. While Canister Cap is removed, ensure flapper is present, that it fully closes, and that spring and pin are in good working condition. Note any concerns. If Flapper is the white flapper model, at a minimum, check it as future service needed and note that an upgrade is recommended.

(6EA) CAP 3/32 HEX

6. While side panel is removed, unscrew the two filter cartridges from the side, of the vacuum pump and replace the Vacuum Pump Filters.

7. While side panel is removed, ensure the hose connections between the Vacuum Pump and Silencer Manifold are secured.

8. While side panel is removed, inspect the elbow on the Silencer Manifold

9. Inspect the Pneumatic Pump rubber mounts to ensure they are not worn or cracked. Replace if necessary. Note any replacements.

10. Utilize the "Pump On" function to offload the rover and record the time required to offload 8 liters. If the offload rate is not below 50 seconds, troubleshoot the problem, comment on PM checklist, and perform repair based on severity of problem. Be aware that Docker may be the source of problem if several Rovers are slow. Note this on Docker PM.

11. Utilize "Undock" function and back out of calibration menu and diagnostic mode.

12. Reattach the right Side Panel.

13. Check to ensure Cap seal is tight and no air or water leaks exist.
O RING PROPERLY IS

14. Check Vacuum Level. Indicate the value and mark appropriate box based on values in the definitions on checklist. Service if below 15 in-Hg. Be aware that some facilities have intentionally had their vacuum level lowered for physician preference. If you suspect this, contact OR personnel before adjusting.

15. Check the function of the IV Pole and the Smoke Evacuator.

16. Inspect the unit per Service Bulletin-0123. Reference tests 4, 5, 6. C. Rover

Gold and Silver (level Sensor) Rovers (Models 700-1 and 700-3)

1. Wipe off any excess fluid on or around couplers.

2. Clean LED's on IR Board with Moist Q-tip.

3. Remove the Vacuum Hose (External) and Vacuum Pre-Filter. Clean top of Stainless Steel House Suction port as necessary.
NOTE: If Vacuum Hose (External) is the Carbon Hose model, then prefilter should not be present.

4. IF the Vacuum Hose (External) was not the Carbon Hose model, then remove the Right Tower Panel and replace the Vacuum Hose (Internal). Use extreme care to not damage any components on main controller board.

5. Remove the Fluid Suction HEPA Filter and inspect for signs of fluid contamination. *IF* there are visible signs of dried drops of fluid present inside the filter *OR* if cleaning is part of 6 month PM, replace the HEPA Filter.

6. If HEPA Filter is replaced, reset filter hours with "Reset Filter function" in Diagnostic Mode.

7. Reattach the Right Tower Panel.

8. Carefully remove the Canister Cap and spray underside with Simple Green d.
Allow to soak while continuing procedure.

9. Fill the Rover Canister with mixture of 2 Liters warm water and 0.5 Liters of Simple Green d.

10. Scrub the sides of the Canister, the base, and the ring with a soft bristled brush or shop towel and the detergent mixture. Check for any cracks or leaks in Canister during cleaning.

11. Using a shop towel, carefully wipe the inside, the rim, and both large ports in the Canister Cap with the cleaning mixture.

12. Once clean, spray the inside of Canister with Simple Green d and allow to soak while completing rest of procedure.

13. Reattach the Canister Cap.

14.Assemble Carbon Hose onto Rover.

15. Dock the Rover to remove all fluid from the canister. Ensure the Docker's water supply is turned off so fluid does not get added to the unit at the end of the docking sequence.

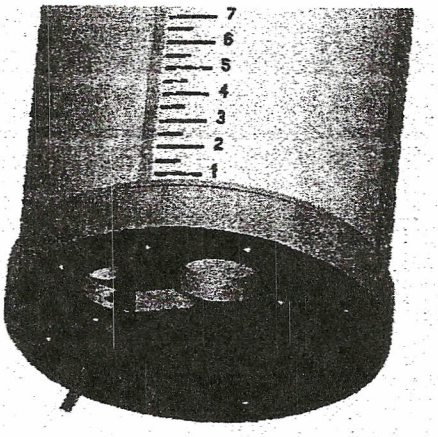
16. Remove the right Side Panel to gain access to the Macerator transducer Manifold.

17. Remove the IV Pole and compressor to obtain access to Macerator transducer Manifold (0700-001-000 only).

18. Carefully remove the grey level sensor wire from the two harnesses connected to the Rover chassis.

19. Remove the Macerator transducer Manifold. Ensure the power is turned off before removing transducer. Moving float while system is ON may cause errors.

20. Looking at the area where the Manifold was attached, inspect the under-side of the Canister Base (Figure 1).



(Figure 1)

21. Fully clean any waste build up from the underside of the Canister Base with a shop towel treated with the Simple Green d.

    NOTE: This area MUST be cleaned to ensure this potential source of smell is removed from the rover.

22. Clean any build up from inside the Macerator Transducer Manifold and from the Float with a shop towel treated with the Simple Green d.

23. Once all areas are clean, spray the underside of canister and inside of manifold block with Simple Green d.

24. Inspect the Manifold and offload hose for clogs and replace if necessary.

25. Securely reattach the Macerator Transducer Manifold to the Canister.

26. Fill the Rover with 6 L of water, and turn the Vacuum Pump ON.

27. After one minute, look inside the canister. If bubbles are present then the Macerator Transducer Manifold is not securely fastened. Empty the unit and reattach the Manifold. Ensure the o-ring seal is intact and in place.

28. Repeat two previous steps until no more leaks are detected.

29. Once no leaks are detected, place level sensor wire back in harnesses and fasten. Reattach the right Side Panel. IF cleaning is part of a PM, the Side Panel will be assembled later.

30. Continue PM sequence or perform Functional Test per SB-0123.

Bronze Rover Model 700-7

1. Inspect Canister for any cracks or leaks that will indicate that the canister should be replaced.

2. Visually inspect Couplers to ensure they are sealing properly and there are no indications of leaks.

3. Clean Rover per Service Bulletin SB-0218. Complete step PM step 4 while Canister Cap is removed

4. Ensure flapper is present, that it fully closes, and that spring and pin are in good working condition. Note any concerns or recommended upgrades.

5. Remove the Battery Door and Replace the two (2) AA Batteries. Reattach the door securely.

6. Manually fill Rover with water to approximately 10 liters. Dock Rover and record the time required to offload 8 liters. If the offload rate is not below 50 seconds, troubleshoot the problem, comment on PM checklist, and perform repair based on severi~ of problem. Be aware that Docker may be the source of problem if several Rovers are slow. Note this on Docker PM.

7. Check to ensure Cap seal is tight and no air or water leaks exist.

   a. Clean inside and around House Suction Ports with small brush or Q- Tip. Use care to not damage check valves.

   b. Visually inspect the Fresh Water Hose. If hose has growth in it, remove Hose from top of Canister Cap and clean using a large soft pipe cleaner or equivalent.

8. Dock the Rover and ensure all sequences of docking cycle are completed and no leaks are present.

9. Enter Diagnostic Mode by holding "Smoke Mode" & "Up" keys simultaneously while turning on battery. Scroll to "Calibration" and enter by touching in sequence "Yes" - "Up" - "Down" - "Yes". Scroll to "Dock Control" and dock the Rover. Utilize "Coupling Ouf and "Sprinkler On" functions to fill the Rover to the 10 liter mark on the canister.

B. Docker Models 700-5

1. Visually inspect Couplers to ensure they are sealing properly and there are no indications of leaks.

2. Wipe off any excess fluid on or around couplers.

3. Clean the LED's on the IR Board with a moist Q-Tip.

4. Remove the Docker Top Cover.

5. Inspect the entire fresh water loop (backflow preventer, hose, couplings, shut off valve) to ensure there are no leaks.

6. Remove the cover plate from the Offload Pump.

7. Replace the Macerator Impeller and O-ring in the offload pump and replace the cover plate. Be sure to secure the screws on the cover plate.

8. Remove the braided stainless steel fresh water hose from the docker. Remove old filter washer if present and insert new filter washer.

9. Inspect the Pneumatic Pump rubber mounts to ensure they are not worn or cracked. Replace if necessary. Note any replacements.

10. Inspect Injector Pump and rest of detergent loop for signs of leaking.

11. Check the state of the mounting of the Docker and comment on recommendations.

12. Check the level and height of the Docker with a couple of Rovers.

13. Inspect the unit per Service Bulletin-0123.

14. During Docking, inspect the offload pump and water hose for leaks around the cover plate.

15. Also during docking, inspect the detergent pump and all connections for signs of leaking.

16. Reattach the Docker Top Cover.

Technician's Notes

Rover 4.0-4.1 Diagnostic Options

To enter Diagnostic Mode, do the following:
Hold "Smoke Mode and Pole Down buttons at the same time and turn On either AC power or battery power. Diagnostic mode will then be displayed, scroll with a"ow buttons for options.

For Calibration menu:
Press, "Yes" when "Calibration" is displayed, then "Up A"ow", "Down An-ow" and "Yes" in sequence). .
Here is a list options available in the Rover version 4.0/4.1 calibration modes

Rover Software 4.0/4.1 Calibration Mode
· Here is the list of options available in the 4.0 and 4.1 calibration mode.

. Clear Errors
  - o All errors can be reset. When this is selected, all errors are cleared. If a pressure sensor is installed, the prefill volume is set to O. If a float sensor is installed, the prefill volume is set to 250 mL.

. Smoke Setup
  - o When this is selected, Rover displays "700-3 Rover? *Y/N*". If yes is selected, the smoke blower is disabled. If no is selected,' the smoke blower is enabled, and the HEPA filter time is reset to 120 hours.

. Calibrate:
  - o Allows for the type of sensor to be specified.
  - o Allows both sensor types to be calibrated.

. Shipping Mode
  - o If equipped with a float sensor, this mode may be set. In this mode, the volume on the display is disabled. Instead of displaying volume, the Rover displays "Shipping Mode," "Dock to Use," "Waiting to Dock." if in Docking Mode, or "Shipping Mode," ."Dock to Use," "See Literature." if in Roving Mode.

. Reset EEPROM
  - o Default values are stored in the EEPROM, and checksum is reset.

. Smoke RF Test
  - . If this option is selected, the main controller sends a command to the Smoke Micro, and receives information back from the Smoke Micro. The Rover then displays the corresponding information on the LCD display.

. Dock Control

When this mode is selected, the rover may be docked with a Revision 4.0 Docker, and the docking sequence can be manually controlled.

The following commands can be issued while in this mode:

- · Couplings Extend/Retract
- · Sprinkler On/Off
- · Off load Pump On/Off
- · Undock

. Macerator On/Off
  - o This option turns the macerator on or off.

. Exit Menu
  - o This option exits the calibration menu.

Rover 5.0 - 5.1 Diagnostic Options

To enter Diagnostic Mode, do the following:
Hold "Smoke Mode and Pole Down buttons at the same time and turn On
either AC power or battery power. Diagnostic mode will then be displayed, scroll with an-ow buttons for options

For Calbration menu:
Press, "Yes" when "Calibration" is displayed, then "Up Arrow", "Down Arrow" and "Yes" in sequence).

Here is a list of what the different options can perform.
. Diagnostic Mode:
. Review Errors
* In this selection, the user can perform the following functions:
· Scroll through the last 5 errors that have occurred, as well as the docking cycle on which the errors occurred.
· Display the current number of successful docking cycles completed by the Rover.
· Reset the previous 5 errors. Resetting the error history will not affect the current docking cycle count.
. External ADC.
o Selecting this option will display the reading from the external ADC (fluid transducer) to the user. This information will be updated once every second until the user presses the No button.
. Shipping Mode
o If equipped with a float sensor, this mode may be set. In this mode, the volume on the display is disabled. Instead of displaying volume, the Rover displays "Shipping Mode," "Dock to Use," "Waiting to Dock." if in Docking Mode, or "Shipping Mode," undock to Use," "See Literature." if in Roving Mode.
. Exit Menu.
o This option exits the diagnostic menu.
. Calibration Mode:
o When this mode is selected, the Rover will display calibration Mode" "Press No To Exit"
· At this point, pressing the "UP" "DOWN" "YES" buttons in sequence will enter the Rover into calibration mode.
· Pressing the "NO" button at this point will return the Rover to the Diagnostic mode.

· The Rover will then display "Location = OXXXX". The user can select the location with the same buttons as in the "EEPROM Read" section. Pressing the No button at this point will cancel the write operation. The location can be selected by pressing the Yes button

o The Rover will then prompt the user to enter the data byte.
· The Rover will then display "Data = OxYY". The user can select the data with the same buttons as in the "EEPROM Read" section. Pressing the No button at this point will cancel the write operation. The data can be selected by pressing the Yes button.
o The Rover will prompt the user to confirm the change.
· If the Yes button is pressed, the Rover will change the selected memory location, and display "Loc. OXXXX = OxYY" .
· If the No button is pressed, the Rover will display "Action Cancelled". and will not perform the EEPROM change operation.

· Reset EEPROM
. Default values are stored in the EEPROM, and checksum is reset.
. When this mode is selected, a message will be displayed that asks the user to confirm this selection. If the user presses no, then the EEPROM will not be reset.
· Calibrate
. This will allow the user to select the type of transducer, and calibrate the Rover.
· Macerator On

. This function turns the macerator on.

· Macerator Off

. This function turns the macerator off.

· Dock Control

. When this mode is selected, the rover may be docked with a Revision 4.0 Docker, and the docking sequence can be manually controlled. The following commands can be issued while in this mode:

- Couplings Extend/Retract
- Sprinkler On/Off
- Offload Pump On/Off
- Detergent Pump On/Off cycle
- By selecting this cycle. the Rover will command the Docker to turn the . sprinkler on, detergent pump on for 2 seconds. and then off for 3 seconds, and perfonn 2 injections. The sprinkler will then be turned off.

. Undock

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NEPTUNE®

Waste Management System

US Patents: D446,791; D479,744; 2,455,731; 5,997,733; 6,180,000; 6,331,246. Other Patents Pending.

Installation Instructions for Disposable Components

WARNINGS:

- Surgical fluid waste is potentially infectious after collection.
- Handling biohazard waste is potentially dangerous.
- After use of the Neptune System, filters, manifolds, tubes and various accessories may contain surgical fluid waste and must be handled as "potentially infectious materials."
- The Bloodborne Pathogens Standard provided by the United States Occupational Safety and Health Association (US OSHA) requires that all workers with exposure to "potentially infectious materials" wear the correct personal protection equipment and be offered immunization against hepatitis B. As an additional precaution, these workers should also receive tetanus immunization and boosters when required.
- The operator should wear gloves and protective eye wear while removing filters, tubes, and accessories and during the docking procedure.

NOTE: Before replacing any disposable component, refer to the Disposable Replacement Guide to ensure the desired component meets local requirements. For more information, contact your Stryker Neptune Service Center at 1-800-550-7836. Outside the US, contact your nearest Stryker subsidiary.

Installation Procedure: Standard 4-Port Manifold REF 700-20 and Specimen Collector 4-Port Manifold REF 700-20-1

The manifold is a non-sterile, single patient use only filter used for fluid suction. The manifold's lid can be removed to allow retrieval of bio-matter.

WARNINGS:

or to installation, handle the manifold with care to prevent damage. If dropped or mishandled, damage may not be visible and the manifold may leak surgical fluid. DO NOT use a manifold that has been dropped or mishandled.

- Manifold suction ports are designed to support a single suction line. DO NOT use a Y-connector to accommodate additional suction lines as cross-contamination can occur thereby placing the patient at risk for infection.

1. Insert manifold into the collection container (see Figure 1).
2. Attach suction tubing with 5/16 in. [7.9 mm] I.D. (or 1/4 in. [6.4 mm] tubing with a 5/16 in. [7.9 mm] adaptor tube) to ports. Leave unused ports capped.

NOTE: Open ports decrease vacuum pressure within the collection container.

3. If retrieval of bio-matter is desired, remove the manifold's lid at the end of the surgical procedure and collect bio-matter.

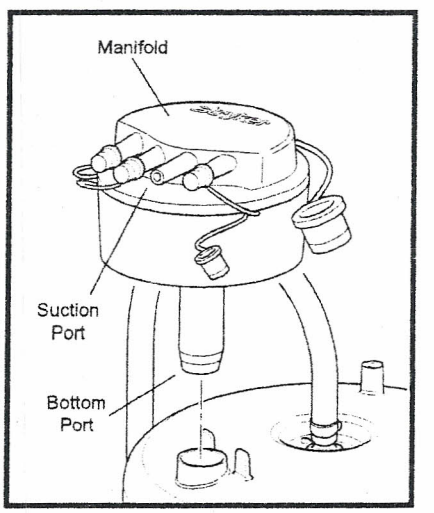

Figure 1

CAUTIONS:

- Repeated removal of the manifold lid may damage the seal and reduce vacuum efficiency.
- Do not disassemble any portion of the manifold; as doing so may damage the Neptune system.

WARNING: Handle and dispose of bio-matter in accordance with local regulations. Failure to comply may result in personal injury.

Removal and Disposal Procedure:

WARNING: Never remove the manifold while vacuum is present in the container as fluid waste may be pulled into the Fluid Suction HEPA Filter or wall suction and then leak out of the rover.

1. Keep fluid suction running while coiling the suction tubing toward the manifold. This will help purge tubing of fluid waste. Do not remove the suction tubing from the manifold.
2. Turn the fluid suction off. Wait until no vacuum remains in the container then carefully lift the manifold out of the collection container. Cap the large port on the bottom of the manifold to prevent leakage of fluid waste. Discard the manifold and suction tubing handling as potential biohazard waste materials per local regulations.

NOTE: To facilitate careful removal, twist the manifold while lifting it from the collection container.

Installation Procedure: Fluid Suction HEPA Filter REF 700-27 and REF 700-34

NOTES:

- Replace the Fluid Suction HEPA filter every six months or when prompted by the Fluid Volume display. If prompted by the display, replace the filter and press the YES button on the Control panel to reset the timer. Press NO button to replace the filter and reset the timer at a later date. the filter is not replaced as recommended, there will be a noticeable reduction in fluid suction.
- Filter life is 500 hours and the system calculates filter usage time automatically.

1. Open filter compartment and set door aside (see Figure 2).
2. Detach hose, then remove and discard filter.
3. Record date on new filter.
4. Install new filter and reconnect to internal hose.
5. Insert a 4-port manifold into the collection container and ensure its ports are capped.
6. Turn the suction ON to ensure the filter is properly sealed against the gasket by noting the suction pressure on the fluid suction gauge.
7. If no suction is present, jiggle the filter until it seats properly against the gasket.
8. Replace the door while the suction is ON.
9. Turn the suction OFF then open one of the ports on the 4-port manifold until suction is gone.
10. Cap the open port on the 4-port manifold.
11. Turn the suction ON again to ensure that full vacuum is attained.
12. If suction does not resume, call your Stryker service representative*.

NOTE: If the filter is replaced before the timer is at zero, see *Resetting the Fluid and Smoke HEPA Filter Timers* section to reset the fluid suction filter time.

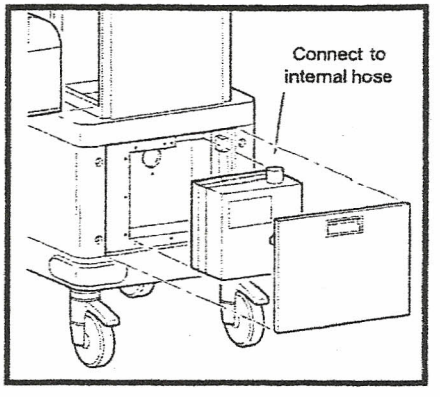

Figure 2

Installation Procedure: Smoke Evacuator HEPA Filter REF 700-21

NOTES:

- Replace the Smoke Evacuator HEPA filter when the REPLACE SMOKE EVACUATOR FILTER indicator light is orange or as indicated by the Fluid Volume display. If prompted by the display, replace the filter and press the YES button on the Control panel to reset the timer. Press NO button to replace the filter and reset the timer at a later date.
- Filter life is 120 hours and the system calculates filter usage time automatically.

1. Slide the filter into the compartment in the orientation shown in figure 3. The filter must be pushed in fully so that its external surface is flush with the compartment opening.
2. If the filter is replaced before the timer is at zero, see *Resetting the Fluid and Smoke HEPA Filter Timers* section to reset the smoke evacuator filter timer.

Disposal Procedure: Discard as a potential biohazard waste material per local regulations.

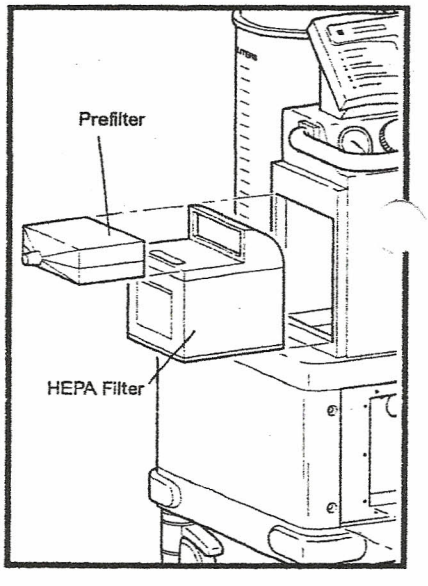

Figure 3

*For service information, contact your Stryker Neptune Service Center at 1-800-550-7836. Outside the US, contact your nearest Stryker subsidiary.

Resetting the Fluid and Smoke HEPA Filter Timers

NOTES:

- Ensure the Rover software is version 5.2 or greater to reset the fluid suction or smoke evacuator HEPA filter timers. The software version will appear on the Fluid Volume display when the Rover is initially turned on.
- The Rover will provide a filter replacement prompt on the display when either the fluid or smoke filter needs to be replaced.

If the filter is replaced before the timer runs out, perform the following procedure:

1. Ensure the power plug is connected and the Power ON/OFF switch is in the OFF position.

NOTE: Rovers without a smoke evacuator do not have a SMOKE MODE button. However, pressing the area located above the FLUID SUCTION ON/OFF button (left of the YES button), will act like a SMOKE MODE button as described in step 2.

2. While holding down the SMOKE MODE button (or area) and the Power POLE Adjustment DOWN arrow button simultaneously, push the Power ON/OFF switch to the ON position. Menu options will appear on the Fluid Volume display.
3. Press the Power POLE Adjustment arrow buttons to cycle through the menu options until either RESET FL FILT ↑↓ (fluid filter) or RESET SM FILT ↑↓ (smoke filter) appears on the Fluid Volume display.
4. Press the YES button on the control panel to reset the selected timer. FL FILT (HR) 500 (fluid filter) or SM FILT (HR) 120 (smoke filter) will appear briefly on the Fluid Volume Display to indicate the timer has been reset.
5. To exit, press the Power POLE Adjustment arrow buttons to cycle through the menu options until EXIT MENU ↑↓ appears on the Fluid Volume display. Press the YES button on the Control Panel to exit the menu.

Installation Procedure: Smoke Evacuator Prefilter REF 700-22

NOTE: The smoke evacuator prefilter is intended for single patient use only and must be replaced for each surgical case.

CAUTION: The smoke evacuator is designed to collect smoke. If fluid is inadvertently suctioned, the prefilter will collect approximately 100 ml of fluid. Any additional fluid will be pulled into the HEPA filter. Once fluid enters the HEPA filter it is sucked into the system and will cause damage to the motor which requires repair by an authorized Stryker representative.

Slide filter into opening over HEPA filter (see figure 3).

2. Connect desired smoke evacuation tubing to the prefilter (see figure 4).

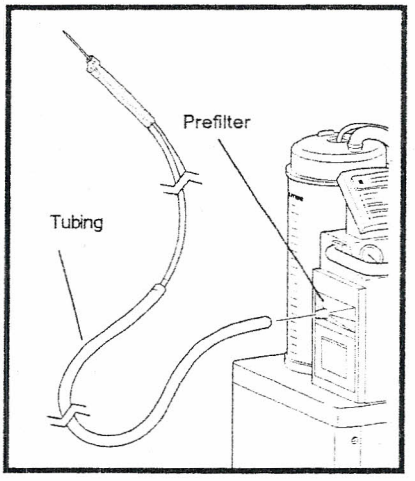

Figure 4

Removal and Disposal Procedure

1. With smoke suction running, coil tubing toward prefilter. Turn suction off and remove prefilter with tubing attached.
2. Discard these items as potential biohazard waste materials per local regulations.

Disposables Replacement Guide

	REF	Component	Comments
Manifold	700-15	Single Port Manifold	Single patient use only.
	*700-20	Standard 4-Port Manifold	Single patient use only.
	700-20-1	Specimen Collector 4-Port Manifold	Single patient use only.
	-	Tubing Lines	Single patient use only. Use 5/16 in. [0.79 mm] I.D. standard tubing.
	700-35	Carbon Hose	Every six months or more frequently if needed.
Filters	*700-21	Smoke Evac. HEPA /Charcoal Filter	Rover indicator signals when to replace this filter.
	*700-22	Smoke Evac. Prefilter	Single patient use only.
	700-27-1	Fluid Suction Prefilter	Replace when saturated.
	700-34	Fluid Suction HEPA Filter	Every six months or as indicated by the Rover.
Smoke Evac. Tubing	700-23	Ultem Wand	Single patient use only.
	700-25	10 ft. Tubing	Single patient use only.
	700-26	10 ft. Tubing with Wand	Single patient use only.
	700-28	Smoke-Evac Suc. Device, Adj. Length	Single patient use only.

*CE

For more information, contact your Stryker Neptune Service Center at 1-800-550-7836. Outside the US, contact your nearest Stryker subsidiary.

WARRANTY (US Only)

Stryker Instruments Warranties cover parts and labor if maintained and operated in accordance with manufacturer's instructions for use. In order to ensure safe operation of Stryker Instruments' products, only Stryker Instruments' accessories should be used. Stryker Instruments reserves the right to invalidate product warranties and complimentary loaner programs if Stryker Instruments' products are used with accessories not manufactured by Stryker Instruments or if repairs are performed by any party other than an authorized Stryker Instruments repair facility.

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